

APPENDIX A

>gi|31795107|gb|AC005383.2| **EID** Homo sapiens chromosome 10 clone CIT967SK-1144G6 map 10q25.1, complete
sequence
Length = 121774

Score = 1405 bits (709), Expect = 0.0
Identities = 747/753 (99%), Gaps = 5/753 (0%)
Strand = Plus / Plus

Query: 2614 ggattcttgagacgccccctgaggcacatggctcccgtgcaggagggcagcagccgtaccc 2673
|||||
Sbjct: 78153 ggattcttgagacgccccctgaggcacatggctcccgtgcaggagggcagcagccgtaccc 78212

Query: 2674 ctcccagcaactacagagaaggcctgggcactgaaatggtgcctaccttctggaatgtct 2733
|||||
Sbjct: 78213 ctcccagcaactacagagaaggcctgggcactgaaatggtgcctaccttctggaatgtct 78272

Query: 2734 gtgccccaggctccttagaatgtctgcttcccgcctggccaggaccactattctcactga 2793
|||||
Sbjct: 78273 gtgccccaggctccttagaatgtctgcttcccgcctggccaggaccactattctcactga 78332

Query: 2794 gggaggaggatgtcccaactgcagccatgctgcttagagacaagaaagcagctgatgtca 2853
|||||
Sbjct: 78333 gggaggaggatgtcccaactgcagccatgctgcttagagacaagaaagcagctgatgtca 78392

Query: 2854 cccacaaacgatgtgtgaaagtttctgatgtgtaagtaaataccactttctgtacct 2913
|||||
Sbjct: 78393 cccacaaacgatgtgtgaaagtttctgatgtgtaagtaaataccactttctgtacct 78452

Query: 2914 gctgtgccttgttgaggctatgtcatctgccacctttcccttgaggataaacaaggggtc 2973
|||||
Sbjct: 78453 gctgtgccttgttgaggctatgtcatctgccacctttcccttgaggataaacaaggggtc 78512

Query: 2974 ctgaagacttaaaatttagcggcctgacgttcctttgcacacaatcaatgctcgccagaat 3033
|||||
Sbjct: 78513 ctgaagacttaaaatttagcggcctgacgttcctttgcacacaatcaatgctcgccagaat 78572

Query: 3034 gttgttgacacagtaaatgccagcagaggcctttactagagcatcctttggacggcggaag 3093
|||||
Sbjct: 78573 gttgttgacacagtaaatgccagcagaggcctttactagagcatcctttggacggcggaag 78632

Query: 3094 gccacggcctttcaagatggaaagcagcagctttccacttcccagagacattctggat 3153
|||||
Sbjct: 78633 gccacggcctttcaagatggaaagcagcagctttccacttcccagagacattctggat 78692

Query: 3154 gcatttgcattgagctctgaaagggggcttgagggacgtttgtgacttcttgccgactgcc 3213
|||||
Sbjct: 78693 gcatttgcattgagctctgaaagggggcttgagggacgtttgtgacttcttgccgactgcc 78751

Query: 3214 ttttctgtgtggaagagacttggaagggtctcagactg-aatgtgaccaattaaccagct 3272
|||||
Sbjct: 78752 ttttctgtgtggaagagacttggaagggtctcagactgaaatgtgaccaattaaccagct 78811

Query: 3273 tgggttgatgatgggggaggggctgagctgtgc-atggggccagggtctgga-gggccacgt 3330
|||||
Sbjct: 78812 tgggttgatgatgggggaggggctgagctgtgc-tgtgcaatggggccagggtctgga-gggggccacgt 78870

Query: 3331 aaaatcgtcttgagtcgtgagcagtgccacct 3363
|||||
Sbjct: 78871 aaaatcgtcttgagtcgtgagcagtgccacct 78903

Score = 1140 bits (575), Expect = 0.0
Identities = 575/575 (100%)
Strand = Plus / Plus

Query: 1324 gccctgaagctgagcctggaatgcagggtcgacctcctcttctgctggacagctctgcg 1383
|||||
Sbjct: 72874 gccctgaagctgagcctggaatgcagggtcgacctcctcttctgctggacagctctgcg 72933

Query: 1384 aacaccactctaaacacttctctcaaaacaaatcttctatnaaacqatllatcaaaac 1443

Sbjct: 72934 |ggcaccactctggacggcttctcgcgggccaaagtcttcgtgaagcgggttctgctcgggcc| 72993

Query: 1444 |gtgctgagcgaggactctcgggcccgagtggtgtggccacatacagcagggagctgctg| 1503

Sbjct: 72994 |gtgctgagcgaggactctcgggcccgagtggtgtggccacatacagcagggagctgctg| 73053

Query: 1504 |gtggcgggtgcctgtgggggagtagcaggatgtgcctgacctggtctggagcctcgatggc| 1563

Sbjct: 73054 |gtggcgggtgcctgtgggggagtagcaggatgtgcctgacctggtctggagcctcgatggc| 73113

Query: 1564 |attcccttccgtgggtggccccaccctgacgggcagtgacctgcggcaggcgagagcgt| 1623

Sbjct: 73114 |attcccttccgtgggtggccccaccctgacgggcagtgacctgcggcaggcgagagcgt| 73173

Query: 1624 |ggcttcgggagcgccaccaggacaggccaggaccggccacgtagagtgggtgttctgctc| 1683

Sbjct: 73174 |ggcttcgggagcgccaccaggacaggccaggaccggccacgtagagtgggtgttctgctc| 73233

Query: 1684 |actgagtcacactccgaggatgaggttgcggggccagcgctcacgcaaggcgcgagag| 1743

Sbjct: 73234 |actgagtcacactccgaggatgaggttgcggggccagcgctcacgcaaggcgcgagag| 73293

Query: 1744 |ctgctcctgctgggtgttaggcagtgaggccgtgcgggcagagctggaggagatcacaggc| 1803

Sbjct: 73294 |ctgctcctgctgggtgttaggcagtgaggccgtgcgggcagagctggaggagatcacaggc| 73353

Query: 1804 |agcccaaagcatgtgatggtctactcggatcctcaggatctgttcaaccaaaccctgag| 1863

Sbjct: 73354 |agcccaaagcatgtgatggtctactcggatcctcaggatctgttcaaccaaaccctgag| 73413

Query: 1864 |ctgcaggggaagctgtgcagccggcagcgccagg| 1898

Sbjct: 73414 |ctgcaggggaagctgtgcagccggcagcgccagg| 73448

Score = 1076 bits (543), Expect = 0.0
Identities = 553/555 (99%), Gaps = 1/555 (0%)
Strand = Plus / Plus

Query: 1895 |caggggtgccggacacaagccctggacctcgtcttcatgttgacacctctgcctcagtag| 1954

Sbjct: 75871 |caggggtgccggacacaagccctggacctcgtcttcatgttgacacctctgcctcagtag| 75930

Query: 1955 |ggccccgagaatttttgcctcagatgcagagctttgtgagaagctgtgccctccagtttgagg| 2014

Sbjct: 75931 |ggccccgagaatttttgcctcagatgcagagctttgtgagaagctgtgccctccagtttgagg| 75990

Query: 2015 |tgaaccctgacgtgacacaggtcggcctggtggtgtatggcagccaggtgcagactgcct| 2074

Sbjct: 75991 |tgaaccctgacgtgacacaggtcggcctggtggtgtatggcagccaggtgcagactgcct| 76050

Query: 2075 |tcgggctggacaccaaaccacccgggtgcgatgctgcgggccattagccaggccccct| 2134

Sbjct: 76051 |tcgggctggacaccaaaccacccgggtgcgatgctgcgggccattagccaggccccct| 76110

Query: 2135 |acctaggtgggg-tgggctcagccggcaccgcctgctgcacatctatgacaaagtgatga| 2193

Sbjct: 76111 |acctaggtgggggtgggctcagccggcaccgcctgctgcacatctatgacaaagtgatga| 76170

Query: 2194 |ccgtccagaggggtgccggcctggtgtcccaaagctgtggtggtgctcacaggcggga| 2253

Sbjct: 76171 |ccgtccagaggggtgccggcctggtgtcccaaagctgtggtggtgctcacaggcggga| 76230

Query: 2254 |gaggcgagaggatgcagccgttcctgcccagaagctgaggaacaatggcatctctgtct| 2313

Sbjct: 76231 |gaggcgagaggatgcagccgttcctgcccagaagctgaggaacaatggcatctctgtct| 76290

Query: 2314 |tggtcgtgggcgtggggcctgtcctaagtggggctcgcggaggcttgcagggtccccggg| 2373

```
|||||
Sbjct: 76291 tggtcgtgggctggggcctgtcctaagtgagggctctgcggaggcttcaggtccccggg 76350

Query: 2374 attccctgatccacgtggcagcttacgccgacctgcggtaccaccaggacgtgctcattg 2433
|||||
Sbjct: 76351 attccctgatccacgtggcagcttacgccgacctgcggtaccaccaggacgtgctcattg 76410

Query: 2434 agtggctgtgtggag 2448
|||||
Sbjct: 76411 agtggctgtgtggag 76425
```

Score = 626 bits (316), Expect = e-176
Identities = 316/316 (100%)
Strand = Plus / Plus

```
Query: 2 acagtggttcgcggctgcaccgctcggaggctgggtgacccgcgtagaagtgaagtacttt 61
|||||
Sbjct: 26189 acagtggttcgcggctgcaccgctcggaggctgggtgacccgcgtagaagtgaagtacttt 26248

Query: 62 tttatttgcagacctgggccgatgccgctttaaaaaacgcgaggggctctatgcacctcc 121
|||||
Sbjct: 26249 tttatttgcagacctgggccgatgccgctttaaaaaacgcgaggggctctatgcacctcc 26308

Query: 122 ctggcggtagttcctccgacctcagccgggtcgggtcgtgccgccctctcccaggagaga 181
|||||
Sbjct: 26309 ctggcggtagttcctccgacctcagccgggtcgggtcgtgccgccctctcccaggagaga 26368

Query: 182 caaacagggtgtcccacgtggcagccgcgccccgggcgccccctcctgtgatcccgtagcgc 241
|||||
Sbjct: 26369 caaacagggtgtcccacgtggcagccgcgccccgggcgccccctcctgtgatcccgtagcgc 26428

Query: 242 cccctggccccgagccgcgccccgggtctgtgagtagagccgccccgggcaccgagcgctggt 301
|||||
Sbjct: 26429 cccctggccccgagccgcgccccgggtctgtgagtagagccgccccgggcaccgagcgctggt 26488

Query: 302 cgccgctctccttcg 317
|||||
Sbjct: 26489 cgccgctctccttcg 26504
```

Score = 391 bits (197), Expect = e-105
Identities = 197/197 (100%)
Strand = Plus / Plus

```
Query: 699 aggagggcgccagcgagacggaacttgctctgaaataccttctgcacagaggggtgcctgg 758
|||||
Sbjct: 59676 aggagggcgccagcgagacggaacttgctctgaaataccttctgcacagaggggtgcctgg 59735

Query: 759 aggcagaaatgcttctgtgccccagatcctcatcatcgtcactgatgggaagtcccagg 818
|||||
Sbjct: 59736 aggcagaaatgcttctgtgccccagatcctcatcatcgtcactgatgggaagtcccagg 59795

Query: 819 ggatgtggcactgccatccaagcagctgaaggaaaggggtgtcactgtgtttgctgtggg 878
|||||
Sbjct: 59796 ggatgtggcactgccatccaagcagctgaaggaaaggggtgtcactgtgtttgctgtggg 59855

Query: 879 ggtcagggtttcccaggt 895
|||||
Sbjct: 59856 ggtcagggtttcccaggt 59872
```

Score = 335 bits (169), Expect = 4e-88
Identities = 169/169 (100%)
Strand = Plus / Plus

Query: 2447 agaagccaagcagccagtcacacctctgcaaaccagcccgtgcatgaatgagggcagctg 2506
|||||
Sbjct: 77174 agaagccaagcagccagtcacacctctgcaaaccagcccgtgcatgaatgagggcagctg 77233

Query: 2507 cgtcctgcagaatgggagctaccgctgcaagtgtcgggatggctgggagggcccccactg 2566
|||||
Sbjct: 77234 cgtcctgcagaatgggagctaccgctgcaagtgtcgggatggctgggagggcccccactg 77293

Query: 2567 cgagaaccgtgagtgaggctcttgctctgtatgtgtgagccagggatgg 2615
|||||
Sbjct: 77294 cgagaaccgtgagtgaggctcttgctctgtatgtgtgagccagggatgg 77342

Score = 272 bits (137), Expect = 5e-69
Identities = 137/137 (100%)
Strand = Plus / Plus

Query: 891 caggtgggagggagctgcatgcactggccagcgagcctagagggcagcacgtgctgttggc 950
|||||
Sbjct: 64847 caggtgggagggagctgcatgcactggccagcgagcctagagggcagcacgtgctgttggc 64906

Query: 951 tgagcaggtggaggatgccaccaacggcctcttcagcacccctcagcagctcggccatctg 1010
|||||
Sbjct: 64907 tgagcaggtggaggatgccaccaacggcctcttcagcacccctcagcagctcggccatctg 64966

Query: 1011 ctccagcgccacgccag 1027
|||||
Sbjct: 64967 ctccagcgccacgccag 64983

Score = 270 bits (136), Expect = 2e-68
Identities = 136/136 (100%)
Strand = Plus / Plus

Query: 1025 cagactgcagggctcgaggctcaccctgtgagcacaggacgctggagatgggtccgggagt 1084
|||||
Sbjct: 65652 cagactgcagggctcgaggctcaccctgtgagcacaggacgctggagatgggtccgggagt 65711

Query: 1085 tcgctgggcaatgccccatgctggagaggatcgcgccggacccttgcggtgctggctgcac 1144
|||||
Sbjct: 65712 tcgctgggcaatgccccatgctggagaggatcgcgccggacccttgcggtgctggctgcac 65771

Query: 1145 actgtcccttctacag 1160
|||||
Sbjct: 65772 actgtcccttctacag 65787

Score = 270 bits (136), Expect = 2e-68
Identities = 136/136 (100%)
Strand = Plus / Plus

Query: 455 tgatgtgggtgctcggctgcagtggaacatcatgtttctgttagatgggtctaacagcgtcg 514
|||||
Sbjct: 41851 tgatgtgggtgctcggctgcagtggaacatcatgtttctgttagatgggtctaacagcgtcg 41910

Query: 515 ggaaagggagctttgaaaggtccaagcactttgccatcacagctctgtgacgggtctggaca 574
|||||
Sbjct: 41911 ggaaagggagctttgaaaggtccaagcactttgccatcacagctctgtgacgggtctggaca 41970

Query: 575 tcagccccgagagggt 590
|||||
Sbjct: 41971 tcagccccgagagggt 41986

Score = 220 bits (111), Expect = 2e-53
Identities = 111/111 (100%)
Strand = Plus / Plus

Query: 588 ggtcagagtgggagcattccagttcagttccactcctcatctggaattcccttggattc 647
|
Sbjct: 48121 ggtcagagtgggagcattccagttcagttccactcctcatctggaattcccttggattc 48180

Query: 648 attttcaacccaacaggaagtgaaggcaagaatcaagaggatgggttttcaa 698
|
Sbjct: 48181 attttcaacccaacaggaagtgaaggcaagaatcaagaggatgggttttcaa 48231

Score = 218 bits (110), Expect = 7e-53
Identities = 110/110 (100%)
Strand = Plus / Plus

Query: 1215 aggccctctgtgactcgcagccctgccagaatggaggcacatgtgttccagaaggactgga 1274
|
Sbjct: 71797 aggccctctgtgactcgcagccctgccagaatggaggcacatgtgttccagaaggactgga 71856

Query: 1275 cggctaccagtgcctctgcccgtggcctttggagggaggctaactgtg 1324
|
Sbjct: 71857 cggctaccagtgcctctgcccgtggcctttggagggaggctaactgtg 71906

Score = 153 bits (77), Expect = 3e-33
Identities = 77/77 (100%)
Strand = Plus / Plus

Query: 378 agtgcccccatctctccctctccaggaagtccatgtaagcaaagaaccatcggaagat 437
|
Sbjct: 40585 agtgcccccatctctccctctccaggaagtccatgtaagcaaagaaccatcggaagat 40644

Query: 438 ttcagctgccagcaaaa 454
|
Sbjct: 40645 ttcagctgccagcaaaa 40661

Score = 117 bits (59), Expect = 2e-22
Identities = 59/59 (100%)
Strand = Plus / Plus

Query: 1159 agctggaagagagtgttcttaacccaccctgccacctgctacaggaccacctgccagg 1217
|
Sbjct: 69450 agctggaagagagtgttcttaacccaccctgccacctgctacaggaccacctgccagg 69508

Score = 117 bits (59), Expect = 2e-22
Identities = 62/63 (98%)
Strand = Plus / Plus

Query: 317 gttatatcaacatgcccccttctctgttgctggagccgtctgtgttttctgttttcca 376
|
Sbjct: 35639 gttatatcaacatgcccccttctctgttgctggagccgtctgtgttttctgttttcca 35698

Query: 377 gag 379
|
Sbjct: 35699 gag 35701